

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
3 May 2001 (03.05.2001)

PCT

(10) International Publication Number
WO 01/31499 A3

(51) International Patent Classification⁷: **G06F 17/30**

(21) International Application Number: PCT/GB00/03503

(22) International Filing Date:
11 September 2000 (11.09.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
9925400.5 27 October 1999 (27.10.1999) GB

(71) Applicant and

(72) Inventor: **HARPAZ, Yehouda** [GB/GB]; 129 Corrie
Road, Cambridge, Cambridgeshire CB1 3QQ (GB).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,
DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,

LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the international search report:
16 May 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **CONSTRAINED DOCUMENT SERVER**

(57) Abstract: A constraint document server, comprising a database of documents and constraints for each document, and software to search the document, to extract pieces of texts out of them, and to limit the amount of text that is being extracted according to the constraints. The software includes a *searcher* component, which searches the documents and identifies potential matching documents, and *extractor/filter* component, which extract text from the potential matching documents, and checks that the extracted text does not exceed the constraints.

WO 01/31499 A3

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 00/03503

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06F17/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MALAMATENIOU F ET AL: "A search engine for virtual patient records" INTERNATIONAL JOURNAL OF MEDICAL INFORMATICS, ELSEVIER SCIENTIFIC PUBLISHERS, SHANNON, IR, vol. 55, no. 2, August 1999 (1999-08), pages 103-115, XP004262430 ISSN: 1386-5056	1
A	page 105, left-hand column, line 10 -page 106, right-hand column, line 19 page 108, left-hand column, line 6 -page 109, right-hand column, line 5 --- -/--	2-5

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

12 March 2002

Date of mailing of the international search report

19/03/2002

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Boyadzhiev, Y

INTERNATIONAL SEARCH REPORT

Int .tional Application No

PCT/GB 00/03503

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DANIEL R JR ET AL: "A metadata architecture for digital libraries" RESEARCH AND TECHNOLOGY ADVANCES IN DIGITAL LIBRARIES, 1998. ADL 98. PROCEEDINGS. IEEE INTERNATIONAL FORUM ON SANTA BARBARA, CA, USA 22-24 APRIL 1998, LOS ALAMITOS, CA, USA, IEEE COMPUT. SOC, US, 22 April 1998 (1998-04-22), pages 276-288, XP010276885 ISBN: 0-8186-8464-X page 277, right-hand column, line 29 -page 278, left-hand column, line 31 page 282, left-hand column, line 14 -page 282, right-hand column, line 9 page 285, right-hand column, line 10 -page 286, left-hand column, line 43 ---	1-5
A	EP 0 398 645 A (IBM) 22 November 1990 (1990-11-22) abstract column 2, line 29 -column 2, line 41 column 3, line 26 -column 3, line 46 column 8, line 29 -column 8, line 55 ---	1-5
A	"ACCESS CONTROL OF MULTIMEDIA OBJECTS VIA ENCRYPTION" IBM TECHNICAL DISCLOSURE BULLETIN, IBM CORP. NEW YORK, US, vol. 37, no. 2A, 1 February 1994 (1994-02-01), pages 287-288, XP000432651 ISSN: 0018-8689 page 287, line 11 -page 287, line 22 -----	1-5

INTERNATIONAL SEARCH REPORT

Information on patent family members

In. ational Application No

PCT/GB 00/03503

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0398645	A	22-11-1990	
		DE 69031191 D1	11-09-1997
		DE 69031191 T2	12-02-1998
		EP 0398645 A2	22-11-1990
		JP 2106025 C	06-11-1996
		JP 3006640 A	14-01-1991
		JP 8007709 B	29-01-1996
		US 5335346 A	02-08-1994